

Title (en)

POLYMERIZABLE LIQUID-CRYSTAL COMPOSITION AND LIQUID-CRYSTAL FILM MADE FROM THE COMPOSITION

Title (de)

POLYMERISIERBARE FLÜSSIGKRISTALLZUSAMMENSETZUNG UND DARAUS HERGESTELLTER FLÜSSIGKRISTALLFILM

Title (fr)

COMPOSITION À CRISTAUX LIQUIDES POLYMÉRISABLE ET FILM DE CRISTAUX LIQUIDES RÉALISÉ À PARTIR DE LA COMPOSITION

Publication

**EP 1803773 B1 20130227 (EN)**

Application

**EP 05766525 A 20050715**

Priority

- JP 2005013531 W 20050715
- JP 2004291995 A 20041004

Abstract (en)

[origin: EP1803773A1] A polymerizable liquid crystalline composition comprises a side chain liquid crystalline polymer obtained by radical-copolymerizing a (meth)acrylic compound has an optically active site and a (meth)acrylic compound having an oxetanyl group, and a cation generator and thus have no functional group the synthesis of which is difficult, such as an epoxy group. The use of the polymerizable liquid crystalline composition provides a cholesteric liquid crystal film which is excellent in a capability of retaining the orientation after being aligned and fixed in a liquid crystal orientation and in mechanical strength without the necessity of a complicated operation such as photo irradiation under an inert gas atmosphere.

IPC 8 full level

**C08L 33/14** (2006.01); **C09K 19/32** (2006.01); **C09K 19/34** (2006.01); **C09K 19/38** (2006.01); **C08F 220/36** (2006.01)

CPC (source: EP KR US)

**C08F 220/303** (2020.02 - EP US); **C08F 220/365** (2020.02 - EP US); **C08J 5/18** (2013.01 - KR); **C08K 5/00** (2013.01 - KR); **C08L 33/14** (2013.01 - EP KR US); **C09K 19/2007** (2013.01 - EP US); **C09K 19/322** (2013.01 - EP US); **C09K 19/38** (2013.01 - KR); **C09K 19/3857** (2013.01 - EP US); **C09K 19/3861** (2013.01 - EP US); **C08K 5/375** (2013.01 - EP US); **C09K 2019/0448** (2013.01 - EP US); **C09K 2019/3408** (2013.01 - EP US); **C09K 2019/3416** (2013.01 - EP US); **C09K 2323/00** (2020.08 - EP US); **C09K 2323/03** (2020.08 - EP US); **C09K 2323/035** (2020.08 - EP US); **G02B 5/3016** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1803773 A1 20070704**; **EP 1803773 A4 20111012**; **EP 1803773 B1 20130227**; CN 101035856 A 20070912; CN 101035856 B 20100804; JP 2006104307 A 20060420; KR 101200602 B1 20121112; KR 20070061573 A 20070613; US 2007164255 A1 20070719; US 7416765 B2 20080826; WO 2006038364 A1 20060413

DOCDB simple family (application)

**EP 05766525 A 20050715**; CN 200580033821 A 20050715; JP 2004291995 A 20041004; JP 2005013531 W 20050715; KR 20077010038 A 20050715; US 68854807 A 20070320